

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended): A system for assisting in the regeneration of depollution means ~~(1)~~—associated with oxidation catalyst-forming means—~~(2)~~, and integrated in an exhaust line ~~(3)~~ of a motor vehicle diesel engine ~~(4)~~—and in which the engine ~~(4)~~ is associated with common manifold means ~~(7)~~—for feeding the cylinders of the engine with fuel, and adapted at constant torque to implement a regeneration strategy by injecting fuel into the cylinders in at least one post-injection operation, the system being characterized in that it comprisescomprising:

- detector means ~~(8)~~—for detecting a regeneration request ~~(req.RG)~~—and thus a request for post-injection;
- detector means ~~(9)~~—for detecting a state of the foot being raised on the vehicle accelerator;
- temperature acquisition means ~~(11)~~—for acquiring the temperature downstream from the catalyst-forming means—~~(2)~~;
- means ~~(8)~~—for determining a maximum quantity of fuel to be injected in the post-injection operations during the period of returning to idling following the foot being raised on the accelerator, and on the basis of said temperature; and
- means ~~(7, 8)~~—for immediately interrupting the or each post-injection operation as soon as the quantity of fuel injected has reached the predetermined maximum quantity.

2. (Currently amended): A system according to claim 1, characterized in thatwherein the depollution means ~~(1)~~—comprise a particle filter.

3. (Currently amended): A system according to claim 1—or claim 2, characterized in that, wherein the depollution means ~~(1)~~—comprise

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a NOx trap.

4. (Currently amended): A system according to ~~any preceding claim, characterized in that~~ claim 1, wherein the fuel includes an additive for being deposited, together with the particles with which it is mixed, on the depollution means ~~(1)~~ in order to facilitate regeneration thereof.

5. (Currently amended): A system according to ~~any one of claims~~ claim 1 to 3, characterized in that, wherein the fuel includes an additive forming a NOx trap.

6. (Currently amended): A system according to ~~any preceding claim, characterized in that~~ 1, wherein the engine is associated with a turbocharger ~~(5, 6).~~